INTERNATIONAL SEARCH REPORT

International application No.

	DEFICE REF	JKI .		217011012 110.		
A. CLA	SSIFICATION OF SUBJECT MATTER		PCT/IL04/00515			
IPC(7) : C12P 19/34, C07H 21/04						
US CL : 435/91.1, 91.2, 91.5, 91.51, 91.52, 536/24.2, 24.22						
B. FIFI	According to international Patent Classification (IPC) or to both national classification					
J. FIELDS SEARCHED						
Minimum do	ocumentation searched (classification system follow	ed by classification sym	bols)			
0.3. ; 4	U.S.: 435/91.1, 91.2, 91.5, 91.51, 91.52; 536/24.2, 24.33					
<u> </u>						
Documentati	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
Please See C	Continuation Sheet	mile of data base and, w	mere practicable, s	search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category * Citation of document, with indication, when a support is a support of the control of						
Y	I III E et al. Pactors affecting the fidelity of DNA graphesis 1.			Relevant to claim No.		
	The state of the first the repeats. Nucleic is	Acids Research 1996 V	mplification of	1-3, 5-9, 21 and 23		
{	pages 2429-2434 especially abstract.	**************************************	oi. 24 No. 12,	i		
x	IIC 5 102 240 A (01) (01)					
^	US 5,183,748 A (SIMONCSITS et al) 2 February 1993 (02.02.1993), see figure 10, col. 10, 13, 17-19 and 22					
, Y	*, Inc. 27-33,					
· ·	US 6,548,277 B1 (SHUMAN) 15 April 2003 (15.04.2003), see bridging paragraph, col. 1-3, 5-9, 21 and 23					
Y	ZHANG et al. Single-stranded DNA ligation by T4 RNA ligase for PCR cloning of 5'-			10.50		
	I don't coming it agricults and coding segmence of a specific game. Note:			1-3, 5-9, 14, 15, 20,		
	1 4270 TOLL 24, IND. J. DROPS QUILQUI COO persocially firms 1			21 and 25		
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Further	documents are listed in the continued on S.P. G.		 L			
Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents:			•			
		"T" later document	published after the inter	national filing date or priority		
of particula	defining the general state of the art which is not considered to be	principle or the	ory underlying the inven	tion but cited to understand the		
"E" carlier ann	lication or patent published on or after the international filing date	"X" document of par	rticular relevance: the of	simad insural		
		CONTRACTOR HOVE	or cannot be considered	d to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as				•		
specified)	. Station of other special reason (as	Cationected to IV	VUIVE AR INVESTIVE class	aimed invention cannot be		
"O" document referring to an oral disclosure, use, exhibition or other means		CONTORRER WILL C	Me Of More Other such a	Octomente ench anni binnete.		
"P" document published prior to the international filing date but later than the			a person skilled in the			
priority date	priority date claimed date but later than the "&" document member of the same patent family					
Date of the act	tual completion of the international search	Date of mailing of the	intomotional			
		Date of mailing of the international search report				
01 November 2004 (01.11.2004) Name and mailing address of the ISA/US						
Mail Stop PCT, Attn: ISA/US		Authorized officer				
Commissioner for Patents P.O. Box 1450		Maria B Marvich, PhD 7. Roberto for				
Alexa	ndria, Virginia 22313-1450	Telephone No. (571)	272-1600	0-1		
Facsimile No.	acsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)

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International application No.

PCT/IL04/00515

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first		
Sheet)	ional search report has not to established in respect of certain claims under Article 17(2)(a) for the following		
reasons:	ional search report has not be established in respect of certain claims under Article 17(2)(a) for the following		
ı. 📄	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3. 6.4(a).	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule		
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet			
3.			
,			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:		
Remark on P	rotest The additional search fees were accompanied by the applicant's protest.		
	No protest accompanied the payment of additional search fees.		
orm PCT/ISA	/210 (continuation of first sheet(2)) (January 2004)		

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-9, 20 and 21, drawn to a method of cloning nucleic acid comprising ligation of a primers comprising restriction sites to the 5' and 3' end of single stranded DNA.

Group II, claim(s) 10-20 and 22, drawn to a method of cloning nucleic acid comprising ligation of a adaptors comprising restriction sites to the 5' and 3' end of single stranded DNA.

Group III, claim(s) 23, drawn to a process of digesting single stranded nucleic acid.

Group IV, claims 24-27, drawn to double stranded adaptors.

PCT Rule 13.2 requires that unity of invention exists only when the shared same or corresponding technical feature is a contribution over the prior art. The inventions listed as Group I-IV do not related to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Group I is a method of cloning nucleic acid comprising ligation of a primers comprising restriction sites to the 5' and 3' end of single stranded DNA, which does not share a special technical feature with Group II and Group IV and furthermore is a Zhang et al (NAR, 1996, Vol 24 (5), pages 990-991; se entire document) in view of Shuman (US 6,548,277 B1; see entire document) and further in view of Hite et al (NAR, 1996, Vol. 24 (12), pages 2429-2434), to lack novelty of inventive step and does not make a contribution over the prior art.

Continuation of B. FIELDS SEARCHED Item 3: East databases-USPAT, PGPUB < EPO, JPO, Derwent, IBM-IDB STN databases-Medline, Caplus, Scisearch